

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	5	"664299".ap.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:31
S2	2	("6181838").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 11:58
S3	26	("20030208485" "20050027704" "5544352" "5794178" "5864846" "5877766" "5963965" "5987460" "6088804" "6446061" "6636862" "6865572" "7017186").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 11:46
S4	13	(information with retrieval with system) same map\$4 with node same array	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:00
S5	1178	self with organizing with map	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:01
S6	38350	vector same feature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:01
S7	421	S5 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:01
S8	26	S7 and (GUI)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:03

## EAST Search History

S9	255	word same related same search same engine same keyword	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:03
S10	3	S7 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:05
S11	1034	mapping with information with node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:05
S12	18	S11 with array	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:06
S13	999	715/700.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:06
S14	3	S13 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:07
S15	8166	707/3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:07
S16	19	S11 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:07

## EAST Search History

S17	35	display same represent\$5 same node same point same GUI	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:08
S18	14	S17 and search	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:09
S19	2485	som and display\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:09
S20	565	som same display\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:09
S21	49	S20 same vector	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:10
S22	20	S21 and (search same word keyword)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:12
S26	644	video adj acquisition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:13
S27	2	video adj acquisition and 707/3. ccis.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:30

## EAST Search History

S28	2	"5983237".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:30
S29	2	"5754938".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/28 12:30
S30	3	"670126".ap.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 07:13
S31	2	dither\$3 same node same close\$2 same space\$3 same display\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:39
S32	2	"5982369".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:41
S33	2	"5636350".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:43
S34	2584	dither same (point node dot) not color	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:44
S35	219	dither same (point node dot) same spac\$3 not color	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:47

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S36	4	dither same (point node dot) same spac\$3 same display\$3 not color	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:46
S37	7	GUI and dither same (point node dot) same spac\$3 not color	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:47
S38	7	GUI and dither same (point node) same spac\$3 not color	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:51
S39	1050	GUI same point same close\$2 same space\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 09:51
S40	66	GUI same (point node) with close\$2 with space\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 10:01
S41	1	node with seperation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 11:29
S42	23957	(SOM (self adj organizing adj map\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 11:30
S43	2590	(SOM (self adj organizing adj map\$4)) and new and error	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 11:31

## EAST Search History

S44	742	(SOM (self adj organizing adj map\$4)) and new same error	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 11:31
S45	188	(SOM (self adj organizing adj map\$4)) and new same error and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 11:44
S46	3	(SOM (self adj organizing adj map\$4)) and new same error and threshold same remap\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/30 11:32
S47	5983	mapping with error	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 08:18
S48	10	mapping with error with node with detect\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 08:20
S49	24	map\$4 with new with node with detect\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 08:23
S50	7	graphical with representation same (SOM) same data	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 08:29
S51	126	add\$3 with data with database same detect\$3 and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 08:30

## EAST Search History

S52	61	S51 and map\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/01 08:30
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Terms used [self organizing map new input items error](#)

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**1 [The Geodesic Self-Organizing Map and its error analysis](#)**

Yingxin Wu, Masahiro Takatsuka

January 2005 **Proceedings of the Twenty-eighth Australasian conference on Computer Science - Volume 38 ACSC '05**

**Publisher:** Australian Computer Society, Inc.

Full text available: [pdf\(530.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The Self-Organizing Map (SOM) is one of the popular Artificial Neural Networks which is a useful in clustering and visualizing complex high dimensional data. Conventional SOMs are based on the two-dimensional (2D) grid structure, which usually results in less accurate representation of the data. Several SOMs using spherical data structures have been proposed to remove the "border effect". In this paper, we compared our proposed Geodesic SOM (GeoSOM) with the 2D hexagonal SOM by experiments. The ...

**Keywords:** error analysis, geodesic dome, self-organizing map, sphere tessellation

**2 [Software engineering: applications, practices and tools \(SE\): Organizing and visualizing software repositories using the growing hierarchical self-organizing map](#)**

Songsri Tangsripairoj, M. H. Samadzadeh

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

**Publisher:** ACM Press

Full text available: [pdf\(109.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



A software repository, a place where reusable components are stored and searched for, is a key ingredient for instituting and popularizing software reuse. It is vital that a software repository should be well-organized and provide efficient tools for developers to locate reusable components that meet their requirements. The growing hierarchical self-organizing map (GHSOM), an unsupervised learning neural network, is a powerful data mining technique for the clustering and visualization of large a ...

**Keywords:** growing hierarchical self-organizing map, self-organizing map, software repository, software reuse

**3 [Short papers session 1: 3D model retrieval based on volumetric extended gaussian image and hierarchical self organizing map](#)**



**Web**Results 1 - 10 of about 1,430,000 for **SOM mapping**. (0.27 seconds)**generation5 - Self Organizing Map AI for Pictures**

NOTE the **SOM map** can also be in a 2D honeycomb shape or only have 1 Dimension. it could be 3D as well, but that would be hard to visualize ...

[www.generation5.org/content/2004/aisompic.asp](http://www.generation5.org/content/2004/aisompic.asp) - 37k - [Cached](#) - [Similar pages](#)

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**[PDF] A SOM mapping technique for visualizing documents in a database ...**

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document **mapping** is the application of self-organizing map (SOM) neural network [2] [3]

[4]. ... Figure 10: SOM ordination of 200 item random map ...

[ieeexplore.ieee.org/iel5/7474/20319/00938456.pdf](http://ieeexplore.ieee.org/iel5/7474/20319/00938456.pdf) - [Similar pages](#)

**Welcome to IEEE Xplore 2.0: A SOM mapping technique for ...**

The reduced dimension data is used to train a small rectangular self organizing map (SOM).

After training, each document's input vector is premultiplied by ...

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Projection. John W. Hessler jhes at loc.gov ...

[csiss.ncgia.ucsb.edu/pipermail/ica-map-projections/2006/000063.html](http://csiss.ncgia.ucsb.edu/pipermail/ica-map-projections/2006/000063.html) - 7k -

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Map Projection. Daniel Strebe dstrebe at mapmathematics.com ...

[csiss.ncgia.ucsb.edu/pipermail/ica-map-projections/2006/000072.html](http://csiss.ncgia.ucsb.edu/pipermail/ica-map-projections/2006/000072.html) - 9k -

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**VANTED - Cluster Detection (Train/Use)**

(SOM stands for Self Organizing Map) A complete explanation of this algorithm and its ... If

a different width is given, the **SOM map** will use that width. ...

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**[PDF] A Novel Technique for Data Visualization Based on SOM**

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of the traditional **SOM mapping** technique were also presented for comparison. Results

Using Synthetic Data Set. A synthetic data set was constructed to ...

[www.springerlink.com/index/ANEHGN7JDDEKGYDP.pdf](http://www.springerlink.com/index/ANEHGN7JDDEKGYDP.pdf) - [Similar pages](#)

**[PDF] 2D SOM Layer Input**

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What would the resulting **SOM map** look like? . Why would it look like that? ... property of the **map**? 13. SOM Example: Handwritten Digit Recognition ...

[courses.cs.tamu.edu/choe/07spring/633/lectures/slide16.pdf](http://courses.cs.tamu.edu/choe/07spring/633/lectures/slide16.pdf) - [Similar pages](#)

**SOMLib - Data File Structure**

list of strings giving the URL's of SOM Map Description Files (filename XXX.map) Used ...

added (keyword) to SOM Map Description File to indicate whether a ...

[www.ifs.tuwien.ac.at/~andi/somlib/download/SOMLib\\_Datafiles.html](http://www.ifs.tuwien.ac.at/~andi/somlib/download/SOMLib_Datafiles.html) - 32k -

**Web**Results 1 - 10 of about 290,000 for SOM mapping new input items. (0.26 seconds)[Self-organizing map - Wikipedia, the free encyclopedia](#)

The self-organizing map (SOM) is a subtype of artificial neural networks. ... During the mapping process a new input vector may quickly be given a location ...  
[en.wikipedia.org/wiki/Self-organizing\\_map](http://en.wikipedia.org/wiki/Self-organizing_map) - 32k - [Cached](#) - [Similar pages](#)

[Kohonen Network - Scholarpedia](#)

The Self-Organizing Map (SOM), commonly also known as Kohonen network (Kohonen 1982, ... where  $n_j$  is the number of the input items mapped into the node  $j$  ...  
[www.scholarpedia.org/article/Kohonen\\_Network](http://www.scholarpedia.org/article/Kohonen_Network) - 39k - Apr 30, 2007 -  
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[Self-Organizing Maps](#)

The basic Self-Organizing Map (SOM) can be visualized as a sheet-like neural-network array ... Any input item is thought to be mapped into the location, ...  
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[\[PDF\] Time topology for the self-organizing map - Neural Networks, 1999 ...](#)

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SOM. to. preserve the topology of the input in the mapping. Per- fect topology preservation requires that adjacent input. items are mapped to adjacent (or ...  
[ieeexplore.ieee.org/iel5/6674/17891/00832671.pdf](http://ieeexplore.ieee.org/iel5/6674/17891/00832671.pdf) - [Similar pages](#)

[Amazon.com: Self-Organizing Neural Networks: Recent Advances and ...](#)

The Self-Organizing Map (SOM) [1], [2], [3] is a computational mapping principle ...  
projection of high-dimensional input data items onto a low-dimensional, ...  
[www.amazon.com/Self-Organizing-Neural-Networks-Applications-Fuzziness/dp/3790814172](http://www.amazon.com/Self-Organizing-Neural-Networks-Applications-Fuzziness/dp/3790814172) - 112k - [Cached](#) - [Similar pages](#)

[\[PS\] 1 Time Topology for the Self-Organizing Map](#)

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The SOM training can then be continued by using the. new node connections as a ...  
between the best-matching units of two successive input items in time. ...  
[www.cis.hut.fi/research/reports/triennial97-99/panu\\_time.ps](http://www.cis.hut.fi/research/reports/triennial97-99/panu_time.ps) - [Similar pages](#)

[Pockets Full of Memories](#)

The SOM organizes the input items (contributed objects by the public) into an ... each line of the map and replaces or moves objects based on the new order. ...  
[www.mat.ucsb.edu/~g.legrady/g!Web/publications/publ\\_art/textpfom.html](http://www.mat.ucsb.edu/~g.legrady/g!Web/publications/publ_art/textpfom.html) - 23k -  
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categorization of memory items, concept formation, knowledge discovery [11] ... 2–11 is iterated when a new input to be learned is applied to the SOM ...  
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